

Amendments to the Specification:

Please replace paragraph [0072] with the following amended paragraph:

[0072] Although the inference process needs to be executed frequently in order to account for the changes in performance of different AS paths, the geographic location of subnetworks does not change very frequently. Therefore, the process for determining the geographic location of subnetworks does not [needs] need to be carried out very frequently. However, when that process is carried out, it needs to run in a reasonably short amount of time. Most of the computational work of that process involves finding the intersection of a set of circles representing the distance from each source to the destination, so finding that intersection must be done efficiently.

Please replace paragraph [0095] with the following amended paragraph:

[0095] A practical problem with the biased random walk algorithm is that [it] in each iteration, unless it is randomly assigning the next-hop AS, it has to evaluate the cost function one time for each next-hop AS selection. If the cost function is slow to compute, then this can limit the number of iterations of the algorithm that can be computed in a reasonable amount of time. This is an issue because if the algorithm is not able to run for many iterations, then the routing matrix at the final iteration will not be very optimal. It is often possible to speed up the evaluation of cost function by caching information at each stage in the evaluation and just updating that information.